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Declass Review by NGA.

EIGHTH MONTHLY NARRATIVE REPORT

15 March 1965

REFERENCE	

REPORTING INTERVAL

10 February 1965 - 10 March 1965

OBJECTIVE

The objective of this program is the design, construction, and testing of a prenormalizing system to be used for problems of automatic target identification on aerial imagery. The prenormalizer will scan the image and, by special filtering techniques, produce a set of measurements which have minimal change with translation and rotation of the specific image on the scene. Testing is to be accomplished on the CONFLEX I Adaptive Recognition System.

STATUS OF ACTIVITIES AND ACCOMPLISHMENTS

THE PRENORMALIZING SYSTEM

The Scanning System. During this interval, the scanner has been assembled and wired and is in the final debug phase. The principal factors of concern in this stage are the optical alignments and dynamic balancing of the 3600 rpm drum. Except for a slight delay experienced because of shop scheduling in the previous interval, progress has been satisfactory.

The Filter Bank. The 400 secondary filters have been tuned, installed, and wired in the rack. The 20 preliminary filters are now being wired on boards to be installed in the system.

Interface with CONFLEX I and Readout Display. The debug operation on the completed electronic sensory field and associated display is still under way and progressing well. Only a few weak transistors have been found which did not satisfy the sensitivity requirements for the display.

<u>Summary</u>. As may be noted from the previous paragraphs, the assembly is virtually complete. The debug operations are under way and will continue into the next interval, at which time testing with imagery will begin.

EXPERIMENTAL SCHEDULE

Some preliminary experimental scheduling has been made, and a great deal of effort has been given to the problem of acquiring appropriate aerial imagery. This effort will continue into the next reporting interval.

	attended the Automatic Target	
Recognition Conference held	at Aeroneutronics in Corona Del Mar	
California, on March 11 and	12, 1965. The attending investi-	
gators presented material which basically covered the last		
eight months of research ef	fort in the field. pre-	
sented a summary of the recently completed work with GIMRADA		
and the Air Force in additi	on to mentioning the current bread-	
board hardware.		
TIME SPEND ON PROJECT (CUMU	LATIVE TOTAL)	
	160 hours	
	463 hours	
		
TECHNICAL AGREEMENT MADE	,	
None		
DIFFICULTIES ENCOUNTERED		
None		
PROGRAM FOR THE NEXT INTERV	AL	
During the next interv	val, the final debugging operations	
: 11 be completed and initi	at experimentar reserved with peature	
will be completed and initi	ill be completed and presented for	
The experimental schedule w	vill be completed and presented for ne sponsor will be informed of impor-	

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Vice President, Engineering

Project Engineer